

Title (en)
BLENDS OF THERMOPLASTIC POLYURETHANES AND RUBBERS AND PROCESS FOR PRODUCING SAME

Title (de)
BLENDS AUS THERMOPLASTISCHEN POLYURETHANEN UND KAUTSCHUKEN UND VERFAHREN ZU IHRER HERSTELLUNG

Title (fr)
MÉLANGES DE POLYURÉTHANES THERMOPLASTIQUES ET DE CAOUTCHOUC ET PROCÉDÉ DE PRODUCTION DESDITS MÉLANGES

Publication
EP 3041877 A1 20160713 (DE)

Application
EP 14758515 A 20140828

Priority

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- EP 2014068245 W 20140828

Abstract (en)
[origin: WO2015032681A1] The invention relates to the field of chemistry and to the blends that can by way of example be used for rolls and roll coverings in the printing, textile, paper and graphic industry. The problem addressed by the present invention is provision of blends that have improved physical properties, and of a simple low-cost process with low energy consumption for producing same. The problem is solved via blends of thermoplastic polyurethanes and rubbers, consisting of rubber and from 5 to 80% by weight of thermoplastic polyurethanes, where the materials intermesh with one another in the regions of contact between rubber and polyurethanes. The problem is further solved via a process in which at least one rubber and from 5 to 80% by weight of polyurethane precursors are mixed and homogenized, where the precursors are prepolymers made of polyisocyanate(s) and of macroglycol(s) and at least one chain extender, and/or monomers of polyisocyanates, of macroglycols and of chain extenders.

IPC 8 full level
C08G 18/10 (2006.01); **C08G 18/08** (2006.01); **C08G 18/32** (2006.01); **C08L 15/00** (2006.01); **C08L 75/04** (2006.01)

CPC (source: EP US)
C08G 18/0895 (2013.01 - EP US); **C08G 18/10** (2013.01 - EP US); **C08G 18/3243** (2013.01 - EP US); **C08L 9/02** (2013.01 - EP US); **C08L 75/04** (2013.01 - EP US)

C-Set (source: EP US)
1. **C08G 18/10 + C08G 18/3243**
2. **C08L 9/02 + C08L 75/04**

Citation (search report)
See references of WO 2015032681A1

Citation (examination)
• WO 2007025690 A1 20070308 - SARTOMER TECHNOLOGY CO INC [US], et al
• US 2008045643 A1 20080221 - HENNING STEVEN K [US], et al
• EP 1889735 A1 20080220 - SUMITOMO RUBBER IND [JP]

Designated contracting state (EPC)
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Designated extension state (EPC)
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